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tgcttgTTTT	gtttttcttt	tttaattaga	taatcacacg	gaaaattaa	ctgttcatat	3240
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taaggggaga	agtgttctta	aaaagtcaac	cagaaaactg	ttatgccttt	tatttgtttg	3360
caaggatgtc	ttgtaaatgt	gtttcatgaa	tagaatatcc	aatagagata	agctgacttg	3420
aatcattttg	aatgaattttg	ccctgtgtta	tatgtgtttc	acgcacatat	ttgcagttgg	3480
atTTctcca	acagaaagtg	gattcactac	tggcacatta	acaagcacca	ataggttttt	3540
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<210> 16
<211> 803
<212> PRT
<213> Homo sapiens

<400> 16
Leu Arg Arg His Phe Phe Phe Pro Pro Ser Phe Pro Pro Leu Leu Leu
 1               5               10               15
Pro Ser Leu Pro Leu Ser Ser Pro Leu Ser Ser Phe Pro Pro Arg Ser
      20               25               30
Ala Gly Ala Cys Trp Gly Glu Arg Leu Val Leu Gln Ala Leu Ala Leu
      35               40               45
Arg Gly Arg Pro Ala Gly Ser Trp Arg Gly Glu Glu Ala Gly Thr Ala
      50               55               60
Met Ala Pro Gln Lys His Gly Gly Gly Gly Gly Gly Gly Ser Gly Pro
 65               70               75               80
Ser Ala Gly Ser Gly Gly Gly Gly Phe Gly Gly Ser Ala Ala Val Ala
      85               90               95
Ala Ala Thr Ala Ser Gly Gly Lys Ser Gly Gly Gly Ser Cys Gly Gly
      100               105               110
Gly Gly Ser Tyr Ser Ala Ser Ser Ser Ser Ser Ala Ala Ala Ala Ala
      115               120               125
Gly Ala Ala Val Leu Pro Val Lys Lys Pro Lys Met Glu His Val Gln
      130               135               140
Ala Asp His Glu Leu Phe Leu Gln Ala Phe Glu Lys Pro Thr Gln Ile
 145               150               155               160
Tyr Arg Phe Leu Arg Thr Arg Asn Leu Ile Ala Pro Ile Phe Leu His
      165               170               175

```

Arg	Thr	Leu	Thr	Tyr	Met	Ser	His	Arg	Asn	Ser	Arg	Thr	Asn	Ile	Lys
			180						185			190			
Arg	Lys	Thr	Phe	Lys	Val	Asp	Asp	Met	Leu	Ser	Lys	Val	Glu	Lys	Met
			195			200						205			
Lys	Gly	Glu	Gln	Glu	Ser	His	Ser	Leu	Ser	Ala	His	Leu	Gln	Leu	Thr
			210			215			220						
Phe	Thr	Gly	Phe	Phe	His	Lys	Asn	Asp	Lys	Pro	Ser	Pro	Asn	Ser	Glu
225						230			235			240			
Asn	Glu	Gln	Asn	Ser	Val	Thr	Leu	Glu	Val	Leu	Leu	Val	Lys	Val	Cys
			245						250			255			
His	Lys	Lys	Arg	Lys	Asp	Val	Ser	Cys	Pro	Ile	Arg	Gln	Val	Pro	Thr
			260			265						270			
Gly	Lys	Lys	Gln	Val	Pro	Leu	Ile	Pro	Asp	Leu	Asn	Gln	Thr	Lys	Pro
			275			280						285			
Gly	Asn	Phe	Pro	Ser	Leu	Ala	Val	Ser	Ser	Asn	Glu	Phe	Glu	Pro	Ser
290						295			300						
Asn	Ser	His	Met	Val	Lys	Ser	Tyr	Ser	Leu	Leu	Phe	Arg	Val	Thr	Arg
305						310			315			320			
Pro	Gly	Arg	Arg	Glu	Phe	Asn	Gly	Met	Ile	Asn	Gly	Glu	Thr	Asn	Glu
			325						330			335			
Asn	Ile	Asp	Val	Asn	Glu	Glu	Leu	Pro	Ala	Arg	Arg	Lys	Arg	Asn	Arg
			340			345						350			
Glu	Asp	Gly	Glu	Lys	Thr	Phe	Val	Ala	Gln	Met	Thr	Val	Phe	Asp	Lys
			355			360						365			
Asn	Arg	Arg	Leu	Gln	Leu	Leu	Asp	Gly	Glu	Tyr	Glu	Val	Ala	Met	Gln
370						375			380						
Glu	Met	Glu	Glu	Cys	Pro	Ile	Ser	Lys	Lys	Arg	Ala	Thr	Trp	Glu	Thr
385						390			395			400			
Ile	Leu	Asp	Gly	Lys	Arg	Leu	Pro	Pro	Phe	Glu	Thr	Phe	Ser	Gln	Gly
			405						410			415			
Pro	Thr	Leu	Gln	Phe	Thr	Leu	Arg	Trp	Thr	Gly	Glu	Thr	Asn	Asp	Lys
			420			425						430			
Ser	Thr	Ala	Pro	Ile	Ala	Lys	Pro	Leu	Ala	Thr	Arg	Asn	Ser	Glu	Ser
			435			440			445						
Leu	His	Gln	Glu	Asn	Lys	Pro	Gly	Ser	Val	Lys	Pro	Thr	Gln	Thr	Ile
450						455			460						
Ala	Val	Lys	Glu	Ser	Leu	Thr	Thr	Asp	Leu	Gln	Thr	Arg	Lys	Glu	Lys
465						470			475			480			

Asp	Thr	Pro	Asn	Glu	Asn	Arg	Gln	Lys	Leu	Arg	Ile	Phe	Tyr	Gln	Phe
				485					490					495	
Leu	Tyr	Asn	Asn	Asn	Thr	Arg	Gln	Gln	Thr	Glu	Ala	Arg	Asp	Asp	Leu
			500					505					510		
His	Cys	Pro	Trp	Cys	Thr	Leu	Asn	Cys	Arg	Lys	Leu	Tyr	Ser	Leu	Leu
		515					520					525			
Lys	His	Leu	Lys	Leu	Cys	His	Ser	Arg	Phe	Ile	Phe	Asn	Tyr	Val	Tyr
	530					535					540				
His	Pro	Lys	Gly	Ala	Arg	Ile	Asp	Val	Ser	Ile	Asn	Glu	Cys	Tyr	Asp
545					550					555					560
Gly	Ser	Tyr	Ala	Gly	Asn	Pro	Gln	Asp	Ile	His	Arg	Gln	Pro	Gly	Phe
				565					570					575	
Ala	Phe	Ser	Arg	Asn	Gly	Pro	Val	Lys	Arg	Thr	Pro	Ile	Thr	His	Ile
			580					585					590		
Leu	Val	Cys	Arg	Pro	Lys	Arg	Thr	Lys	Ala	Ser	Met	Ser	Glu	Phe	Leu
		595					600					605			
Glu	Ser	Glu	Asp	Gly	Glu	Val	Glu	Gln	Gln	Arg	Thr	Tyr	Ser	Ser	Gly
	610					615					620				
His	Asn	Arg	Leu	Tyr	Phe	His	Ser	Asp	Thr	Cys	Leu	Pro	Leu	Arg	Pro
625					630					635					640
Gln	Glu	Met	Glu	Val	Asp	Ser	Glu	Asp	Glu	Lys	Asp	Pro	Glu	Trp	Leu
				645					650					655	
Arg	Glu	Lys	Thr	Ile	Thr	Gln	Ile	Glu	Glu	Phe	Ser	Asp	Val	Asn	Glu
			660					665					670		
Gly	Glu	Lys	Glu	Val	Met	Lys	Leu	Trp	Asn	Leu	His	Val	Met	Lys	His
		675					680					685			
Gly	Phe	Ile	Ala	Asp	Asn	Gln	Met	Asn	His	Ala	Cys	Met	Leu	Phe	Val
	690					695					700				
Glu	Asn	Tyr	Gly	Gln	Lys	Ile	Ile	Lys	Lys	Asn	Leu	Cys	Arg	Asn	Phe
705					710					715					720
Met	Leu	His	Leu	Val	Ser	Met	His	Asp	Phe	Asn	Leu	Ile	Ser	Ile	Met
				725					730					735	
Ser	Ile	Asp	Lys	Ala	Val	Thr	Lys	Leu	Arg	Glu	Met	Gln	Gln	Lys	Leu
			740					745					750		
Glu	Lys	Gly	Glu	Ser	Ala	Ser	Pro	Ala	Asn	Glu	Glu	Ile	Thr	Glu	Glu
		755					760					765			
Gln	Asn	Gly	Thr	Ala	Asn	Gly	Phe	Ser	Glu	Ile	Asn	Ser	Lys	Glu	Lys
	770					775					780				

Gln Lys Leu

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Cys Pro Phe Cys Ser Met Leu Cys Gly Ser Phe Lys Gly Leu Gln Phe
1 5 10 15

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<210> 18
<211> 21
<212> PRT
<213> Arabidopsis thaliana
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<400> 18
Cys Pro Phe Cys Ala Glu Ser Tyr Asp Ile Ile Gly Leu Cys Cys His
1 5 10 15

Ile Asp Asp Glu His
20

```
<210> 19
<211> 20
<212> PRT
<213> Arabidopsis thaliana
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<400> 19
Cys Pro Val Cys Ser Leu Lys Val Gly Val Asp Ile Val Ala His Ile
  1             5             10             15
```

Thr Leu His His
20

```

<210> 23
<211> 22
<212> PRT
<213> Saccharomyces cerevisiae

<400> 23
Cys Pro Ile Cys Leu Arg Lys Phe Asp Asn Leu Gln Ala Leu Asn Ala
 1             5             10             15
His Leu Asp Val Glu His
                20

```

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<400> 24
Cys Pro Ile Cys Ser Lys Pro Cys Val Gly Glu Asn Gly Leu Gln Met
  1                               5          10          15
His Met Ile Ile His
          20

```

```

<210> 25
<211> 22
<212> PRT
<213> Schizosaccharomyces pombe

<400> 25
Cys Pro Tyr Cys Glu Ile Lys Cys Lys Arg Lys Asp Leu Leu Lys Arg
 1             5             10             15
His Ile Gln Arg Phe His
          20

```

```

<210> 26
<211> 22
<212> PRT
<213> Caenorhabditis elegans

<400> 26
Cys Asp Val Cys Ala Phe Lys Cys Ser Ser Tyr Gln Thr Leu Glu Ala
 1             5             10             15
His Leu Thr Ser Asn His
      20

```

```

<210> 27
<211> 22
<212> PRT
<213> Caenorhabditis elegans

<400> 27
Cys  Pro  Val  Cys  Glu  Leu  Val  Ile  Pro  Thr  Glu  Lys  Gly  Leu  Lys  Asn
 1              5              10              15

His Met Asn Gln Lys His
          20

```

```

<400> 28
Cys Pro Ile Cys Lys Cys Glu Cys Ser Gly Arg Glu Asp Cys Gln Leu
  1             5             10             15
His Met Tyr Ala Ser His
          20

```

```

<210> 30
<211> 22
<212> PRT
<213> Drosophila melanogaster

<400> 30
Cys Pro Ile Cys Tyr Ala Val Ile Arg Gln Ser Arg Asn Leu Arg Arg
 1             5             10             15
His Leu Glu Leu Arg His
      20

```

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<210> 31
<211> 22
<212> PRT
<213> Drosophila melanogaster

<400> 31
Cys Cys Phe Cys Ser Met Cys Phe Glu Ser Val Gln Glu Leu Val Arg
 1             5             10             15
His Leu Ser Gly His His
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<400> 35
Cys Pro Tyr Cys Pro Pro Asn Gly Arg Val Arg Gly Asp Leu Val Glu
1 5 10 15
His Leu Arg Gln Ala His
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<210> 36
 <211> 21
 <212> PRT
 <213> Mus musculus

<400> 36
 Cys Arg Phe Cys Ala Lys Val Phe Gly Ser Asp Ser Ala Leu Gln Ile
 1 5 10 15
 His Leu Arg Ser His
 20

<210> 37
 <211> 22
 <212> PRT
 <213> Rattus norvegicus

<400> 37
 Cys Asn Tyr Cys Pro Glu Met Phe Ala Asp Ile Asn Ser Leu Gln Glu
 1 5 10 15
 His Ile Arg Val Ser His
 20

<210> 38
 <211> 22
 <212> PRT
 <213> Xiphophorus maculatus

<400> 38
 Cys Pro His Cys Glu Phe Arg Cys Ala Asp Gln Ser Asn Leu Lys Thr
 1 5 10 15
 His Ile Lys Ser Lys His
 20

<210> 39
 <211> 39
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> CDS
 <222> (1)..(39)

<400> 39
 gaa aag caa ttc atg cat ctt tgg aac tcg ttt gta aga
 Glu Lys Gln Phe Met His Leu Trp Asn Ser Phe Val Arg
 1 5 10

<400> 40
Glu Lys Gln Phe Met His Leu Trp Asn Ser Phe Val Arg
1 5 10

```
<220>  
<221> CDS  
<222> (1)..(24)
```

39

<400> 42
Glu Lys Gln Phe Met His Leu
1 5

<220>
<221> CDS
<222> (1) .. (33)

33

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<210> 44
<211> 11
<212> PRT
<213> Arabidopsis thaliana
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<400> 44

Cys Gly Ser Phe Lys Gly Leu Gln Phe His Leu
 1 5 10

<210> 45

<211> 54

<212> DNA

<213> Arabidopsis thaliana

<220>

<221> CDS

<222> (1)..(36)

<400> 45

tgt ggt agc ttc aag gtg ggc aac tat tac aac tga ggggctgcaa 46
 Cys Gly Ser Phe Lys Val Gly Asn Tyr Tyr Asn
 1 5 10

tttcattt

54

<210> 46

<211> 11

<212> PRT

<213> Arabidopsis thaliana

<400> 46

Cys Gly Ser Phe Lys Val Gly Asn Tyr Tyr Asn
 1 5 10

<210> 47

<211> 1722

<212> DNA

<213> Arabidopsis thaliana

<400> 47

caagcttctt caattttgct tgcctctctt tacacagcca atcgggtgttt tcgcagcttt 60
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 gcattgagtt tatcgctatg acgtagggaa attctaattt aggggaggcc tcagagtgtt 180
 cactaacttc ataatcggct cttgacgttg ttgagtgtaa ttgaacaaga atgtgtaggc 240
 agaattgtcg cgcgaaatcc tcaccggagg aagtgatctc aactgatgag aatctcttga 300
 tatattgtaa acctgttcga ctatataaca tctttcacct tcgctctcta ggcaacccat 360
 cgtttcttcc aagatgcttg aactacaaaa ttggagcaaa gcgcaaaaaga aagtcaagat 420
 ctactgggat ggtagttttc aactataagg attgtaataa cacattacag aaaactgaag 480
 ttagggagga ttgttcttgc ccattttgct ctatgctatg tggtagcttc aaggggctgc 540
 aatttcattt gaattcatct catgatttat ttgaatttga gttcaagctt ttcgaagaat 600
 accagacagt taatgtttct gtaaaactta attccttcat atttgaggaa gaaggaagt 660
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 gtggcagaaa taacaccagg agacttaaa tatgcttttt accgttggat tcaccagatt 780
 taactaatgg cacagaaaat ggaatcacc tacttaatga tggaaaccgt gggttaggat 840
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 tagccactc ttctctggac gctggtgcta aagttatatt gacaagcgaa gctgtggtcc 960
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<210> 48
<211> 40
<212> DNA
<213> Arabidopsis thaliana
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```
<210> 49
<211> 40
<212> DNA
<213> Arabidopsis thaliana
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```
<210> 50
<211> 10
<212> DNA
<213> Artificial Sequence
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<210> 51
<211> 35
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Primer

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<400> 54
Ile Ala Lys Pro Leu Ala Thr Arg Asn Ser Glu Ser Leu His Gln Glu
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Asn Lys Pro Gly Ser Val Lys Pro Thr Gln Thr Ile Ala Val Lys Glu
          20             25             30

Ser Leu Thr Thr Asp Leu Gln Thr Arg Lys Glu Lys Asp Thr Pro Asn
          35             40             45

Glu Asn Arg Gln Lys Leu Arg Ile Phe Tyr Gln Phe Leu Tyr Asn Asn
  50             55             60

Asn Thr Arg Gln Gln Thr Glu Ala Arg Asp Asp Leu His Cys Pro Trp
  65             70             75             80

Cys Thr Leu Asn Cys Arg Lys Leu Tyr Ser Leu Leu Lys His Leu Lys
          85             90             95

Leu Cys His Ser Arg Phe Ile Phe Asn Tyr Val Tyr His Pro Lys Gly
          100            105            110

Ala Arg Ile Asp Val Ser Ile Asn Glu Cys Tyr Asp Gly Ser Tyr Ala
  115            120            125

```

Gly Asn Pro Gln Asp Ile His Arg Gln Pro Gly Phe Ala Phe Ser Arg
 130 135 140
 Asn Gly Pro Val Lys Arg Thr Pro Ile Thr His Ile Leu Val Cys Arg
 145 150 155 160
 Pro Lys Arg Thr Lys Ala Ser Met Ser Glu Phe Leu Glu Ser Glu Asp
 165 170 175
 Gly Glu Val Glu Gln Gln Arg Thr Tyr Ser Ser Gly His Asn Arg Leu
 180 185 190
 Tyr Phe His Ser Asp Thr Cys Leu Pro Leu Arg Pro Gln Glu Met Glu
 195 200 205
 Val Asp Ser Glu Asp Glu Lys Asp Pro Glu Trp Leu Arg Glu Lys Thr
 210 215 220
 Ile Thr Gln Ile Glu Glu Phe Ser Asp Val Asn Glu Gly Glu Lys Glu
 225 230 235 240
 Val Met Lys Leu Trp Asn Leu His Val Met Lys His Gly Phe Ile Ala
 245 250 255
 Asp Asn Gln Met Asn His Ala Cys Met Leu Phe Val Glu Asn Tyr Gly
 260 265 270
 Gln Lys Ile Ile Lys Lys Asn Leu Cys Arg Asn Phe Met Leu His Leu
 275 280 285
 Val Ser Met His Asp Phe Asn Leu Ile Ser Ile Met Ser Ile Asp Lys
 290 295 300
 Ala Val Thr Lys Leu Arg Glu Met Gln Gln Lys Leu Glu Lys Gly Glu
 305 310 315 320
 Ser Ala Ser Pro Ala Asn Glu Glu Ile Thr Glu Glu Gln Asn Gly Thr
 325 330 335
 Ala Asn Gly Phe Ser Glu Ile Asn Ser Lys Glu Lys Ala Leu Glu Thr
 340 345 350
 Asp Ser Val Ser Gly Val Ser Lys Gln Ser Lys Lys Gln Lys Leu
 355 360 365

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 L
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 D
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<400> 55
Gln Ala Leu Gly Gly
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22

22

21

<220>
<223> Description of Artificial Sequence: Primer

<400> 59
caggcttaga cccaattgac c

21

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<210> 60
<211> 33
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Primer

<400> 60
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33

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<210> 61
<211> 33
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Primer

<400> 61
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33

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<210> 62
<211> 25
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Primer

<400> 62
gccaatcggt gttttcgcag ctttc

25

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<210> 63
<211> 28
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Primer

<400> 63
aagaataagt tacaatccga taaatcgg

28

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<210> 64
 <211> 22
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<220>
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<400> 64
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<210> 65
 <211> 24
 <212> DNA
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<400> 65
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<210> 66
 <211> 21
 <212> DNA
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<220>
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<400> 66
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<210> 67
 <211> 23
 <212> DNA
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<400> 67
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<210> 68
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T0321-0220650

19

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23

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<210> 73
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